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(71) Applicant (for all designated States except US): **STEIN-  
BEIS-TRANSFERZENTRUM ANALYTISCHE  
ELEKTRONENMIKROSKOPIE, BIOMEDIZIN,  
BIOTECHNOLOGIE-HEIDELBERG** [DE/DE]; Im  
Linsenbühl 21, 69221 Dossenheim (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TRENDELEN-  
BURG, Michael** [DE/DE]; Im Insensbühl 21, 69221

Dossenheim (DE). **SPRING, Herbert** [DE/DE];  
Hans-Pfützner-Strasse 22a, 69198 Schriesheim (DE).  
**MONTEIRO-LEAL, Luiz Henrique** [BR/BR]; Rua  
Dona Zulmira 101/C-01, Rio de Janeiro, CEP 20550-160  
(BR). **CAMPANATI-ARAUJO, Loraine** [BR/BR]; Rua  
Rio Grande do Sul, 93/casa 11- Meier, Rio de Janeiro,  
CEP 20775-100 (BR). **TRÖSTER, Helmut** [DE/DE];  
Leibnizstrasse 4, 68165 Mannheim (DE).

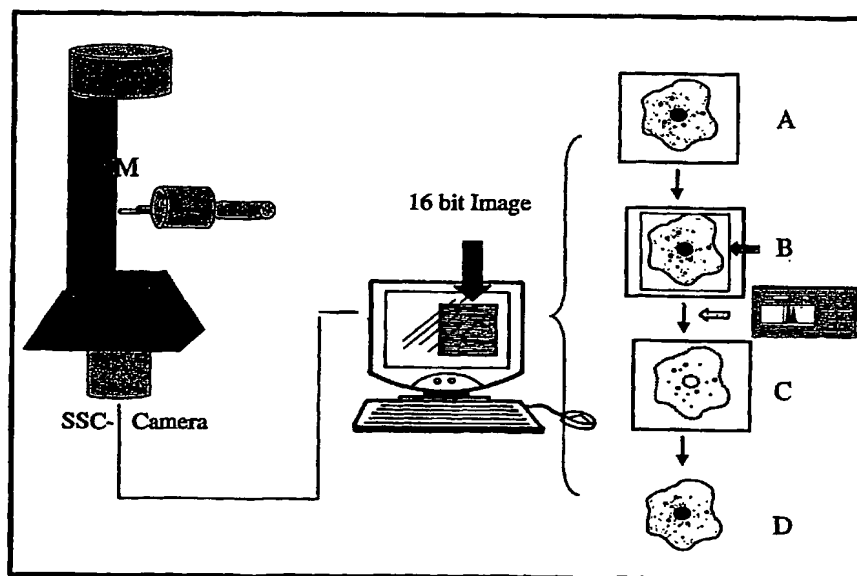
(74) Agent: **HARRISON, Robert**; Rouse Patents, Maximilian  
Strasse 35a, 2nd Floor, 80539 München (DE).

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(54) Title: METHOD AND APPARATUS FOR MULTIPLE LABELING DETECTION AND EVALUATION OF A PLURALITY OF PARTICLES



(57) Abstract: The invention relates to a transmission electron microscope equipped with a 2k x 2k pixel area Slow Scan Cooled Charge Coupled Device Camera connected to an image processing software for generating an image of a sample. A segmentation of gold particles in the sample is achieved by the separation from specimen structure and background noise. An identification and classification of particle types is carried out according to the shape and size of the detected particles or particle pairs and finally, the gold particle distribution is visualized by the generation of false color overlay images as well as the indication of the numbers in the image.



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER  
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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	MONTEIRO-LEAL ET AL: "Gold finder: a computer method for fast automatic double gold labeling detection, counting, and color overlay in electron microscopic images" JOURNAL OF STRUCTURAL BIOLOGY, vol. 141, - 7 February 2003 (2003-02-07) pages 228-239, XP002274390 the whole document --- -/--	1-18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*&\* document member of the same patent family

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Bravin, M

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International Application No  
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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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